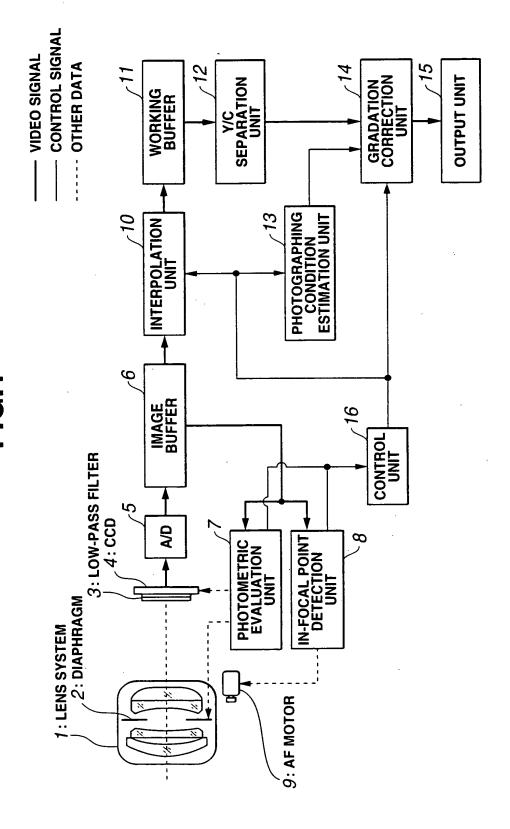
FIG. 1



OUTPUT CONTROL SIGNAL **VIDEO SIGNAL OTHER DATA** CONTROL SIGNAL ---- OTHER DATA GRADATION CORRECTION UNIT 29 28 4 CONVERSION CURVE **CONVERSION UNIT** WEIGHT PATTERN ROM 25 14: GRADATION CORRECTION UNIT 22 27 INTEGRATION UNIT 13: PHOTOGRAPHING CONDITION ESTIMATION UNIT HISTOGRAM GENERATION UNIT WEIGHT PATTERN SELECTION UNIT **FIG.3 FIG.2** OBJECT DISTRIBUTION ESTIMATION UNIT 20 21 IN-FOCAL POSITION ESTIMATION UNIT 56 EXTRACTION UNIT PHOTOGRAPHING CONDITION ESTIMATION UNIT CONTROL Y/C SEPARATION UNIT CONTROL 91 13 16 12

FIG.4

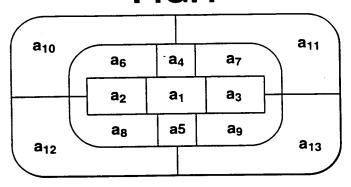


FIG.5

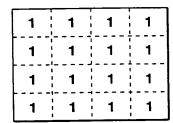
AF INFORMATION	AE INFORMATION	DISTRIBUTION STATE OF SUBJECT	TYPE
5m ~ ∞	S3 > Th1	LANDSCAPE CONTAINING SKY ON UPPER SIDE	Type 1
	S3 < Th1	LANDSCAPE CONTAINING NO (SLIGHT) SKY ON UPPER SIDE	Type 2
1m ~ 5m	S2 > Th2	PORTRAIT OF ONE PERSON	Type 3
	S2 < Th2	PORTRAIT OF PLURAL PERSONS	Type 4
1m OR LESS	S1 > Th3	CLOSEUP OF SINGLE SUBJECT	Type 5
	S1 < Th3	CLOSEUP OF PLURAL SUBJECTS	Type 6

FIG.6A

0	0	0	0
1	1	1	1
1	1	1	1
1	1	1	1

Type 1

FIG.6B



Type 2

FIG.6C

0	1	1	0
1	8	8	1
1	1	1	1
0	1	1	0

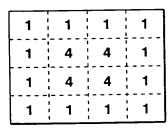
Type 3

FIG.6D

0	1	1	0
4	4	4	4
2	4	4	2
1	1	1	1

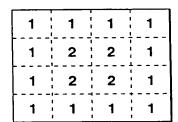
Type 4

FIG.6E



Type 5

FIG.6F



Type 6

FIG.7

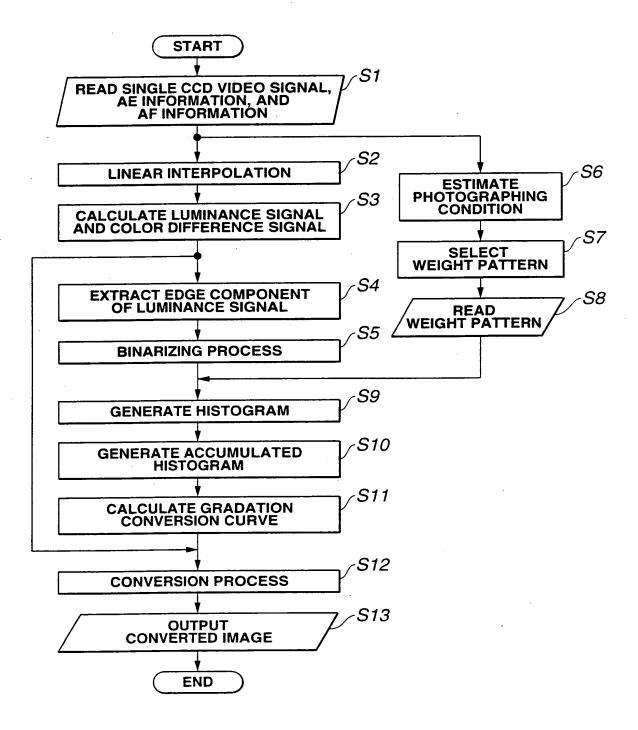
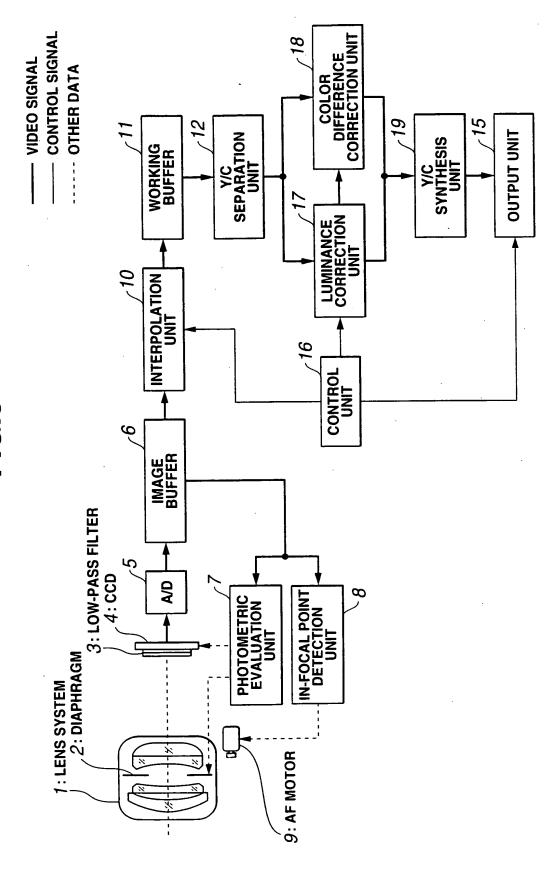
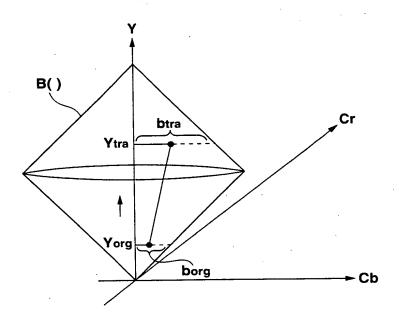


FIG.8



CONTROL SIGNAL COLOR DIFFERENCE CORRECTION UNIT CONTROL SIGNAL **VIDEO SIGNAL VIDEO SIGNAL** Y/C SYNTHESIS UNIT **OTHER DATA OTHER DATA** Y/C SYNTHESIS UNIT 33 CONVERSION CURVE CALCULATION UNIT LUMINANCE CONVERSION UNIT ${\it 18}$: color difference correction unit COLOR DIFFERENCE CONVERSION UNIT 37 35 36 17: LUMINANCE CORRECTION UNIT **FIG.10** FIRST CORRECTION COEFFICIENT CALCULATION UNIT SECOND CORRECTION COEFFICIENT CALCULATION UNIT **FIG.9** COLOR REPRODUCTION LIMIT CHARACTERISTIC ROM 31 HISTOGRAM
GENERATION UNIT 30 EXTRACTION UNIT LUMINANCE CORRECTION UNIT Y/C SEPARATION UNIT SEPARATION -CONTROL

FIG.11



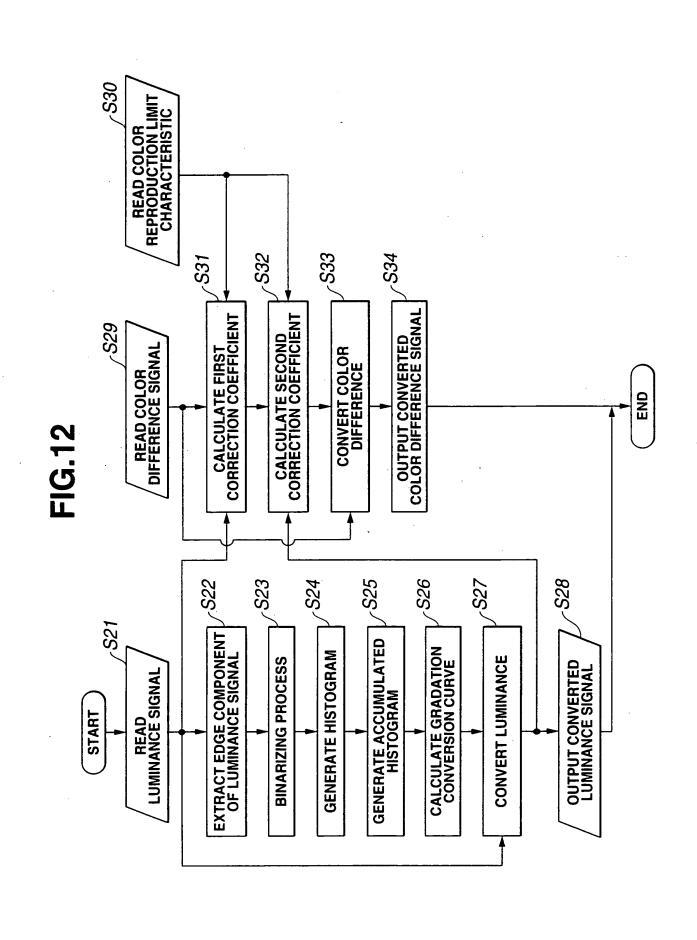
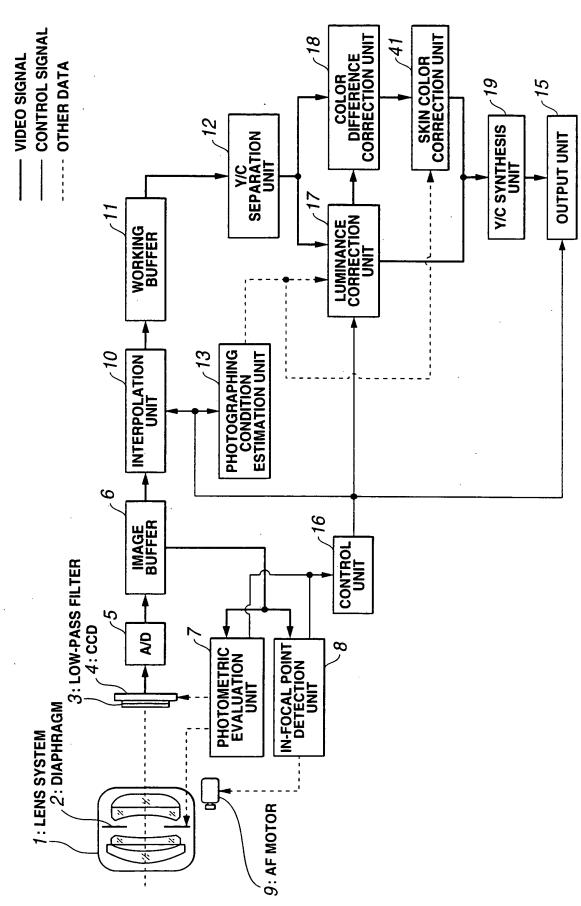
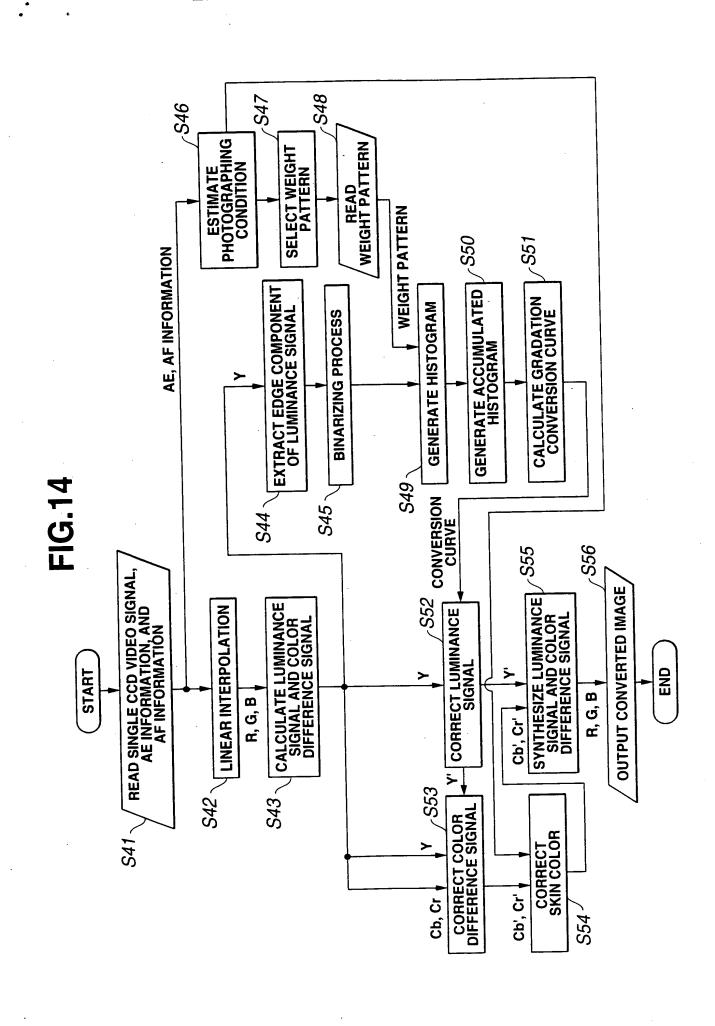


FIG. 13





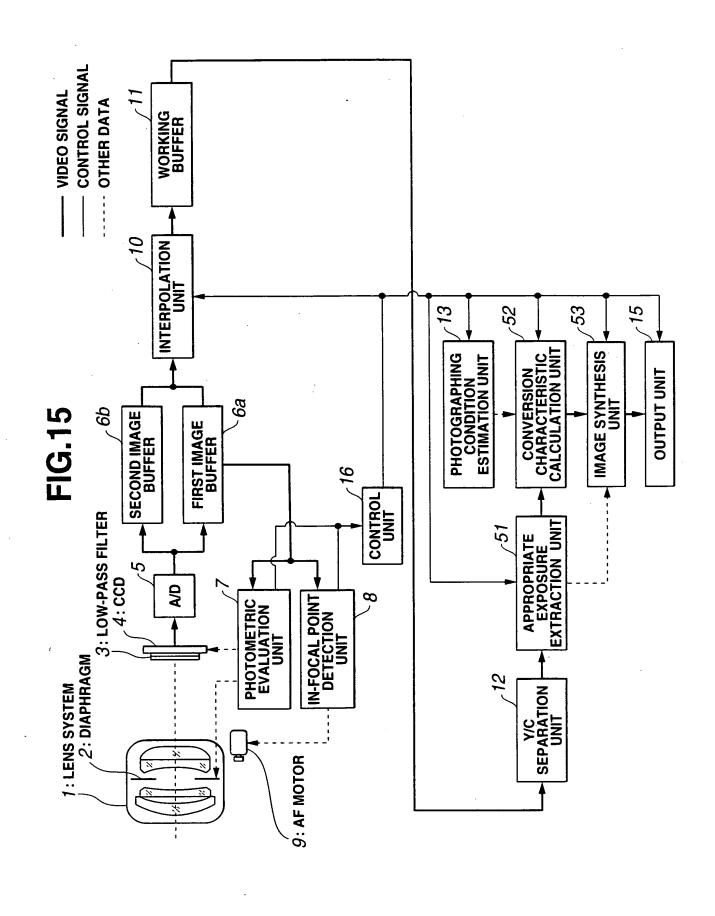
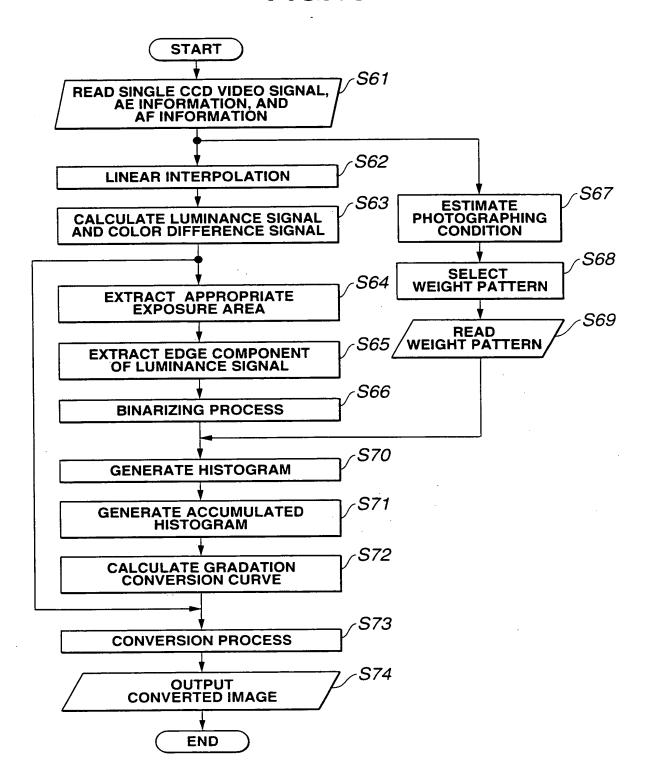
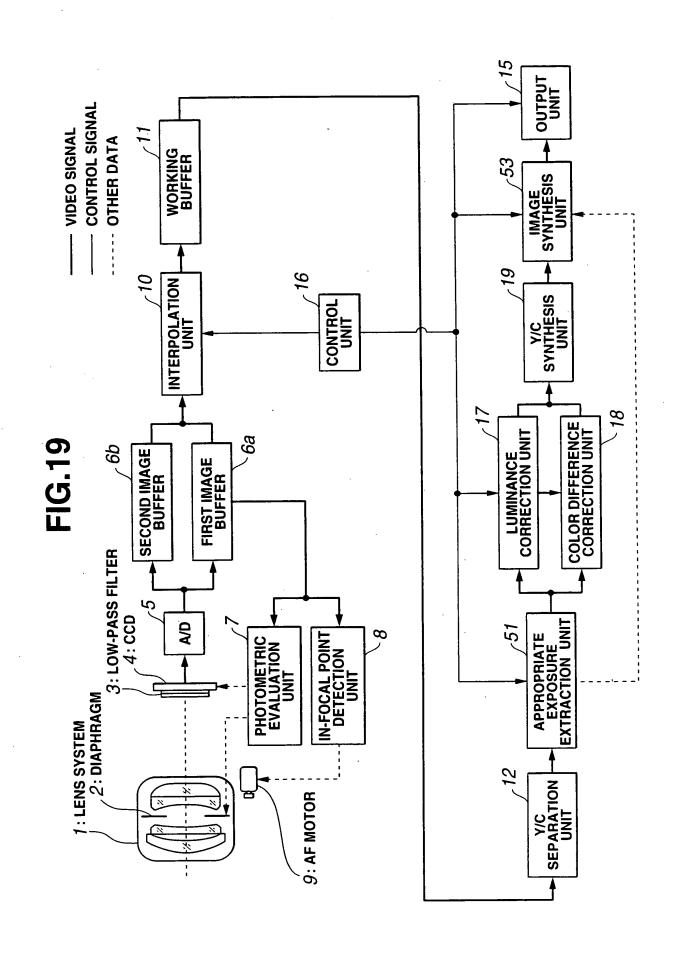


IMAGE SYNTHESIS UNIT CONTROL SIGNAL **VIDEO SIGNAL OTHER DATA CONTROL SIGNAL OTHER DATA** 52 CONVERSION CHARACTERISTIC CALCULATION UNIT 29 CONVERSION CURVE **CONVERSION UNIT** WEIGHT PATTERN ROM 25 52: CONVERSION CHARACTERISTIC CALCULATION UNIT 24 22 27 INTEGRATION 13: PHOTOGRAPHING CONDITION ESTIMATION UNIT HISTOGRAM GENERATION UNIT WEIGHT PATTERN SELECTION UNIT FIG. 16 FIG. 17 OBJECT DISTRIBUTION ESTIMATION UNIT .20 21 IN-FOCAL POSITION ESTIMATION UNIT 26 EXTRACTION UNIT APPROPRIATE EXPOSURE EXTRACTION UNIT PHOTOGRAPHING CONDITION ESTIMATION UNIT CONTROL CONTROL 91 16 13 51

FIG.18





CONTROL SIGNAL COLOR DIFFERENCE CORRECTION UNIT **CONTROL SIGNAL** 18 VIDEO SIGNAL **VIDEO SIGNAL** Y/C SYNTHESIS UNIT **OTHER DATA OTHER DATA** 19 33 CONVERSION CURVE CALCULATION UNIT LUMINANCE CONVERSION UNIT ${\it 18}$: COLOR DIFFERENCE CORRECTION UNIT 35 36 17: LUMINANCE CORRECTION UNIT FIG.20 **FIG.21** SECOND CORRECTION COEFFICIENT CALCULATION UNIT FIRST CORRECTION COEFFICIENT CALCULATION UNIT 31 COLOR REPRODUCTION LIMIT CHARACTERISTIC ROM HISTOGRAM GENERATION UNIT 30 EXTRACTION UNIT APPROPRIATE EXPOSURE EXTRACTION UNIT 51 LUMINANCE CORRECTION UNIT APPROPRIATE EXPOSURE EXTRACTION UNIT 51 16 CONTROL

Y/C SYNTHESIS UNIT

COLOR DIFFERENCE CONVERSION UNIT

